

**Flood Control Project Maintenance****2013 Structure Summary Report****Overall Unit and Item Ratings****Lower San Joaquin Levee District****Ash Slough Drop Structure No. 1**

Overall Unit Rating	Rated Item	Item Rating
<b>A</b>	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	M
	Encroachments	A
	Culverts: Inlets / Outlets	N
	Culverts: Breaks / Holes / Cracks	N
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	N
	Sluice/Slide Gates	N
	Electric Gate Operators	N
	Manual Gate Operators	N
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	N
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	N
	Monolith Joints	A
	Safety	A
	Operation & Maintenance Manual	A

**Flood Control Project Maintenance**  
**2013 Structure Summary Report**  
**Overall Unit and Item Ratings**

**Lower San Joaquin Levee District (cont.)**

**Ash Slough Drop Structure No. 2**

Overall Unit Rating	Rated Item	Item Rating
<b>A</b>	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	M
	Encroachments	A
	Culverts: Inlets / Outlets	N
	Culverts: Breaks / Holes / Cracks	N
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	N
	Sluice/Slide Gates	N
	Electric Gate Operators	N
	Manual Gate Operators	N
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	M
	Security Fencing	N
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	N
	Monolith Joints	A
	Safety	A
	Operation & Maintenance Manual	A

**Flood Control Project Maintenance**  
**2013 Structure Summary Report**  
**Overall Unit and Item Ratings**

**Lower San Joaquin Levee District (cont.)**

**Ash Slough Drop Structure No. 3**

Overall Unit Rating	Rated Item	Item Rating
<b>A</b>	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	A
	Encroachments	A
	Culverts: Inlets / Outlets	N
	Culverts: Breaks / Holes / Cracks	N
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	N
	Sluice/Slide Gates	N
	Electric Gate Operators	N
	Manual Gate Operators	N
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	N
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	N
	Monolith Joints	A
	Safety	A
	Operation & Maintenance Manual	A

**Flood Control Project Maintenance**  
**2013 Structure Summary Report**  
**Overall Unit and Item Ratings**

**Lower San Joaquin Levee District (cont.)**

**Ash Slough Drop Structure No. 4**

Overall Unit Rating	Rated Item	Item Rating
<b>A</b>	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	M
	Encroachments	M
	Culverts: Inlets / Outlets	N
	Culverts: Breaks / Holes / Cracks	N
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	N
	Sluice/Slide Gates	N
	Electric Gate Operators	N
	Manual Gate Operators	N
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	N
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	N
	Monolith Joints	A
	Safety	A
	Operation & Maintenance Manual	A

**Flood Control Project Maintenance**  
**2013 Structure Summary Report**  
**Overall Unit and Item Ratings**

**Lower San Joaquin Levee District (cont.)**

**Bear Creek Diversion Structure**

Overall Unit Rating	Rated Item	Item Rating
<b>A</b>	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	A
	Encroachments	A
	Culverts: Inlets / Outlets	A
	Culverts: Breaks / Holes / Cracks	A
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	N
	Sluice/Slide Gates	N
	Electric Gate Operators	A
	Manual Gate Operators	A
	Concrete Surfaces	M
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	N
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	N
	Monolith Joints	A
	Safety	A
	Operation & Maintenance Manual	A

**Flood Control Project Maintenance**  
**2013 Structure Summary Report**  
**Overall Unit and Item Ratings**

**Lower San Joaquin Levee District (cont.)**

**Eastside Bypass Control Structure**

Overall Unit Rating	Rated Item	Item Rating
<b>A</b>	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	A
	Encroachments	A
	Culverts: Inlets / Outlets	A
	Culverts: Breaks / Holes / Cracks	A
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	N
	Sluice/Slide Gates	A
	Electric Gate Operators	A
	Manual Gate Operators	A
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	A
	Closure Structures	A
	Trash Rakes	N
	Other Metallic Items	A
	Monolith Joints	A
	Safety	M
	Operation & Maintenance Manual	A

**Flood Control Project Maintenance**  
**2013 Structure Summary Report**  
**Overall Unit and Item Ratings**

**Lower San Joaquin Levee District (cont.)**

**Eastside Bypass Drop Structure No. 1**

Overall Unit Rating	Rated Item	Item Rating
<b>A</b>	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	M
	Revetments	A
	Encroachments	A
	Culverts: Inlets / Outlets	N
	Culverts: Breaks / Holes / Cracks	N
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	N
	Sluice/Slide Gates	N
	Electric Gate Operators	N
	Manual Gate Operators	N
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	N
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	A
	Monolith Joints	A
	Safety	A
	Operation & Maintenance Manual	A

**Flood Control Project Maintenance**  
**2013 Structure Summary Report**  
**Overall Unit and Item Ratings**

**Lower San Joaquin Levee District (cont.)**

**Eastside Bypass Drop Structure No. 2**

Overall Unit Rating	Rated Item	Item Rating
<b>A</b>	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	A
	Encroachments	A
	Culverts: Inlets / Outlets	N
	Culverts: Breaks / Holes / Cracks	N
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	N
	Sluice/Slide Gates	N
	Electric Gate Operators	N
	Manual Gate Operators	N
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	N
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	N
	Monolith Joints	M
	Safety	A
	Operation & Maintenance Manual	A



**Flood Control Project Maintenance**  
**2013 Structure Summary Report**  
**Overall Unit and Item Ratings**

**Lower San Joaquin Levee District (cont.)**

**Fresno River Drainage Structure**

Overall Unit Rating	Rated Item	Item Rating
<b>A</b>	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	A
	Encroachments	A
	Culverts: Inlets / Outlets	A
	Culverts: Breaks / Holes / Cracks	A
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	A
	Sluice/Slide Gates	A
	Electric Gate Operators	N
	Manual Gate Operators	A
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	N
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	A
	Monolith Joints	A
	Safety	A
	Operation & Maintenance Manual	A

**Flood Control Project Maintenance****2013 Structure Summary Report****Overall Unit and Item Ratings****Lower San Joaquin Levee District (cont.)****Mariposa Bypass Control Structure**

Overall Unit Rating	Rated Item	Item Rating
<b>A</b>	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	A
	Encroachments	A
	Culverts: Inlets / Outlets	A
	Culverts: Breaks / Holes / Cracks	A
	Metal Pipes	N
	Trash Racks	A
	Flap Gates	N
	Sluice/Slide Gates	A
	Electric Gate Operators	A
	Manual Gate Operators	M
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	N
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	A
	Monolith Joints	A
	Safety	A
	Operation & Maintenance Manual	A

**Flood Control Project Maintenance**  
**2013 Structure Summary Report**  
**Overall Unit and Item Ratings**

**Lower San Joaquin Levee District (cont.)**

**Mariposa Bypass Drop Structure**

Overall Unit Rating	Rated Item	Item Rating
<b>A</b>	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	A
	Encroachments	A
	Culverts: Inlets / Outlets	N
	Culverts: Breaks / Holes / Cracks	N
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	N
	Sluice/Slide Gates	N
	Electric Gate Operators	N
	Manual Gate Operators	N
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	N
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	N
	Monolith Joints	A
	Safety	A
	Operation & Maintenance Manual	A

**Flood Control Project Maintenance**  
**2013 Structure Summary Report**  
**Overall Unit and Item Ratings**

**Lower San Joaquin Levee District (cont.)**

**Owens Creek Control Structure**

Overall Unit Rating	Rated Item	Item Rating
<b>M</b>	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	M
	Revetments	A
	Encroachments	A
	Culverts: Inlets / Outlets	A
	Culverts: Breaks / Holes / Cracks	A
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	N
	Sluice/Slide Gates	N
	Electric Gate Operators	N
	Manual Gate Operators	N
	Concrete Surfaces	M
	Concrete Tilting / Settlement	M
	Concrete Foundations	A
	Security Fencing	N
	Closure Structures	A
	Trash Rakes	N
	Other Metallic Items	N
	Monolith Joints	M
	Safety	A
	Operation & Maintenance Manual	A

**Flood Control Project Maintenance****2013 Structure Summary Report****Overall Unit and Item Ratings****Lower San Joaquin Levee District (cont.)****Owens Creek Overflow Structure**

Overall Unit Rating	Rated Item	Item Rating
<b>A</b>	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	A
	Encroachments	A
	Culverts: Inlets / Outlets	A
	Culverts: Breaks / Holes / Cracks	A
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	N
	Sluice/Slide Gates	A
	Electric Gate Operators	N
	Manual Gate Operators	A
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	N
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	A
	Monolith Joints	N
	Safety	A
	Operation & Maintenance Manual	A

**Flood Control Project Maintenance**  
**2013 Structure Summary Report**  
**Overall Unit and Item Ratings**

**Lower San Joaquin Levee District (cont.)**

**San Joaquin River And Chowchilla Canal Bypass Control Structure**

Overall Unit Rating	Rated Item	Item Rating
<b>A</b>	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	A
	Encroachments	A
	Culverts: Inlets / Outlets	A
	Culverts: Breaks / Holes / Cracks	A
	Metal Pipes	N
	Trash Racks	A
	Flap Gates	N
	Sluice/Slide Gates	A
	Electric Gate Operators	A
	Manual Gate Operators	A
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	A
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	A
	Monolith Joints	A
	Safety	A
	Operation & Maintenance Manual	A

**Flood Control Project Maintenance**  
**2013 Structure Summary Report**  
**Overall Unit and Item Ratings**

**Lower San Joaquin Levee District (cont.)**

**San Joaquin River Structure And Sand Slough Structure**

Overall Unit Rating	Rated Item	Item Rating
<b>A</b>	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	A
	Encroachments	A
	Culverts: Inlets / Outlets	A
	Culverts: Breaks / Holes / Cracks	A
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	N
	Sluice/Slide Gates	A
	Electric Gate Operators	N
	Manual Gate Operators	A
	Concrete Surfaces	M
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	N
	Closure Structures	A
	Trash Rakes	N
	Other Metallic Items	A
	Monolith Joints	M
	Safety	A
	Operation & Maintenance Manual	A

**Flood Control Project Maintenance****Unit Cover Sheet****2013 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
Ash Slough Drop Structure No. 1

Structure Rating	<b>A</b>
Date of Inspection	07/24/2013
DWR Inspector	Richard Willoughby
Accompanied By	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure						Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 1							07/24/2013 07/24/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	0.00	Structures	Photo Documentation		N		37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	1 Y
2	0.00	0.00	Structures	Vegetation & Obstructions		A	Inspector Comments: No vegetation or obstructions that would impeded flow.	37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	2
3	0.00	0.00	Structures	Shoaling / Sedimentation		A	Inspector Comments: No sedimentation or shoaling visible that would cause any undercutting.	37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	3
4	0.00	0.00	Structures	Erosion / Bank Caving		A	Inspector Comments: No visible erosion.	37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	4
5	0.00	0.00	Structures	Revetments		M	Inspector Comments: Riprap displacement on the downstream and upstream side should be maintained.	37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	5 Y
6	0.00	0.00	Structures	Encroachments		A	Inspector Comments: No visible encroachment.	37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	6
7	0.00	0.00	Structures	Culverts: Inlets / Outlets		N	Inspector Comments: This item does not exist at this structure.	37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	7
8	0.00	0.00	Structures	Culverts: Breaks / Holes / Cracks		N	Inspector Comments: This item does not exist at this structure.	37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	8
9	0.00	0.00	Structures	Metal Pipes		N	Inspector Comments: This item does not exist at this structure.	37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	9
10	0.00	0.00	Structures	Trash Racks		N	Inspector Comments: This item does not exist at this structure.	37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	10
11	0.00	0.00	Structures	Flap Gates		N	Inspector Comments: This item does not exist at this structure.	37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	11
12	0.00	0.00	Structures	Sluice/Slide Gates		N	Inspector Comments: This item does not exist at this structure.	37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	12
13	0.00	0.00	Structures	Electric Gate Operators		N	Inspector Comments: This item does not exist at this structure.	37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	13
14	0.00	0.00	Structures	Manual Gate Operators		N	Inspector Comments: This item does not exist at this structure.	37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	14
15	0.00	0.00	Structures	Concrete Surfaces		A	Inspector Comments: No visible damage.	37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	15

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment  
C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 1		07/24/2013 07/24/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
16	0.00	0.00	Structures	Concrete Tilting / Settlement		A	Inspector Comments: No visible movement or settlement present.	37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	16
17	0.00	0.00	Structures	Concrete Foundations		A	Inspector Comments: Minor erosion on downstream side of structure.	37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	17
18	0.00	0.00	Structures	Security Fencing		N	Inspector Comments: This item does not exist at this structure.	37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	18
19	0.00	0.00	Structures	Closure Structures		N	Inspector Comments: This item does not exist at this structure.	37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	19
20	0.00	0.00	Structures	Trash Rakes		N	Inspector Comments: This item does not exist at this structure.	37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	20
21	0.00	0.00	Structures	Other Metallic Items		N	Inspector Comments: This item does not exist at this structure.	37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	21
22	0.00	0.00	Structures	Monolith Joints		A	Inspector Comments: All joint appears to be in good condition.	37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	22
23	0.00	0.00	Structures	Safety		A	Inspector Comments: No visible safety hazards.	37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	23
24	0.00	0.00	Structures	Operation & Maintenance Manual		A	Inspector Comments: The manual is on file in the office.	37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	24

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 1		07/24/2013 07/24/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation

Looking east at downstream side of structure.

Richard\_t\_20130730\_140.JPG



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation

Looking south at overview of structure.

Richard\_t\_20130730\_141.JPG



Levee Mile Report Line	5
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Revetments

Looking northeast at downstream side of structure riprap displacement.

richard\_t\_20130715\_002.JPG



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 1		07/24/2013 07/24/2013	Richard Willoughby

Levee Mile Report Line	5
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Revetments
Looking east at riprap displacement on downstream side of structure.	
richard_t_20130715_003.JPG	



Levee Mile Report Line	5
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Revetments
Looking east at riprap displacement on downstream side of structure. (2013)	
Richard_t_20130730_142.JPG	



Levee Mile Report Line	5
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Revetments
Looking at downstream side of structure.	
Richard_t_20130730_143.JPG	

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance****Unit Cover Sheet****2013 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
Ash Slough Drop Structure No. 2

Structure Rating	<b>A</b>
Date of Inspection	07/24/2013
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 2		07/24/2013 07/24/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	0.00	Structures	Photo Documentation		N		37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	1 Y
2	0.00	0.00	Structures	Vegetation & Obstructions		A	Inspector Comments: No vegetation or obstructions to impede flow, but vegetation is blocking view of the inlet side of structure.	37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	2
3	0.00	0.00	Structures	Shoaling / Sedimentation		A	Inspector Comments: A minimal amount of sediment that should not cause erosion was around the structure.	37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	3
4	0.00	0.00	Structures	Erosion / Bank Caving		A	Inspector Comments: No visible erosion.	37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	4
5	0.00	0.00	Structures	Revetments		M	Inspector Comments: Riprap should be properly maintained.	37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	5 Y
6	0.00	0.00	Structures	Encroachments		A	Inspector Comments: No visible encroachments.	37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	6
7	0.00	0.00	Structures	Culverts: Inlets / Outlets		N	Inspector Comments: This item does not exist at this structure.	37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	7
8	0.00	0.00	Structures	Culverts: Breaks / Holes / Cracks		N	Inspector Comments: This item does not exist at this structure.	37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	8
9	0.00	0.00	Structures	Metal Pipes		N	Inspector Comments: These items do not exist at this structure.	37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	9
10	0.00	0.00	Structures	Trash Racks		N	Inspector Comments: This item does not exist at this structure.	37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	10
11	0.00	0.00	Structures	Flap Gates		N	Inspector Comments: This item does not exist at this structure.	37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	11
12	0.00	0.00	Structures	Sluice/Slide Gates		N	Inspector Comments: These items do not exist at this structure.	37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	12
13	0.00	0.00	Structures	Electric Gate Operators		N	Inspector Comments: This item does not exist at this structure.	37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	13
14	0.00	0.00	Structures	Manual Gate Operators		N	Inspector Comments: This item does not exist at this structure.	37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	14
15	0.00	0.00	Structures	Concrete Surfaces		A	Inspector Comments: No visible damage.	37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	15

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected, see Inspector Comment	C : Corrected
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure						Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 2							07/24/2013 07/24/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
16	0.00	0.00	Structures	Concrete Tilting / Settlement		A	Inspector Comments: No visible movement or settlement.	37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	16
17	0.00	0.00	Structures	Concrete Foundations		M	Inspector Comments: Large hole on the right wing wall 2-3 feet wide and 4-5 feet deep and 12-14 feet long.	37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	17 Y
18	0.00	0.00	Structures	Security Fencing		N	Inspector Comments: This item does not exist at this structure.	37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	18
19	0.00	0.00	Structures	Closure Structures		N	Inspector Comments: This item does not exist at this structure.	37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	19
20	0.00	0.00	Structures	Trash Rakes		N	Inspector Comments: This item does not exist at this structure.	37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	20
21	0.00	0.00	Structures	Other Metallic Items		N	Inspector Comments: This item does not exist at this structure.	37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	21
22	0.00	0.00	Structures	Monolith Joints		A	Inspector Comments: All joints appear to be in good condition.	37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	22
23	0.00	0.00	Structures	Safety		A	Inspector Comments: No visible safety hazards at this structure.	37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	23
24	0.00	0.00	Structures	Operation & Maintenance Manual		A	Inspector Comments: The manual is on file in the office.	37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	24

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment  
C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 2		07/24/2013 07/24/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation

Looking east at overview of downstream side of structure.

Richard\_t\_20130730\_144.JPG



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation

Looking north at overview of structure.

Richard\_t\_20130730\_145.JPG



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation

Looking north at overview of upstream side of structure.

Richard\_t\_20130730\_146.JPG



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 2		07/24/2013 07/24/2013	Richard Willoughby

Levee Mile Report Line	5
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Revetments

Looking north at revement on downstream side of structure.

Richard\_t\_20130730\_147.JPG



Levee Mile Report Line	17
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Concrete Foundations

Looking east at large hole on right wing wall.

Richard\_t\_20130730\_148.JPG



Levee Mile Report Line	17
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Concrete Foundations

Looking east at large hole next to right wing wall.

Richard\_t\_20130730\_149.JPG



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 2		07/24/2013 07/24/2013	Richard Willoughby

Levee Mile Report Line	17
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Concrete Foundations

Looking at hole next to right wing wall.

Richard\_t\_20130730\_150.JPG



Levee Mile Report Line	17
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Concrete Foundations

Looking at depth of hole, hole is approx. 4-5 feet deep.

Richard\_t\_20130730\_151.JPG



Levee Mile Report Line	17
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Concrete Foundations

Looking length of hole, hole is approx. 12 feet long.

Richard\_t\_20130730\_152.JPG



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance****Unit Cover Sheet****2013 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
Ash Slough Drop Structure No. 3

Structure Rating	<a href="#">A</a>
Date of Inspection	<a href="#">07/24/2013</a>
DWR Inspector	<a href="#">Richard Willoughby</a>
Accompanied By	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure						Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 3							07/24/2013 07/24/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	0.00	Structures	Photo Documentation		N		37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	1 Y
2	0.00	0.00	Structures	Vegetation & Obstructions		A	Inspector Comments: No vegetation or obstructions that would impede the flow.	37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	2
3	0.00	0.00	Structures	Shoaling / Sedimentation		A	Inspector Comments: A minimal amount of sediment on the upstream side of structure.	37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	3
4	0.00	0.00	Structures	Erosion / Bank Caving		A	Inspector Comments: No visible erosion or caving near the structure.	37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	4
5	0.00	0.00	Structures	Revetments		A	Inspector Comments: Existing revetment is covered by the sand, but is properly maintained.	37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	5
6	0.00	0.00	Structures	Encroachments		A	Inspector Comments: No visible encroachments near the structure.	37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	6
7	0.00	0.00	Structures	Culverts: Inlets / Outlets		N	Inspector Comments: This item does not exist at this structure.	37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	7
8	0.00	0.00	Structures	Culverts: Breaks / Holes / Cracks		N	Inspector Comments: This item does not exist at this structure.	37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	8
9	0.00	0.00	Structures	Metal Pipes		N	Inspector Comments: This item does not exist at this structure.	37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	9
10	0.00	0.00	Structures	Trash Racks		N	Inspector Comments: This item does not exist at this structure.	37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	10
11	0.00	0.00	Structures	Flap Gates		N	Inspector Comments: This item does not exist at this structure.	37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	11
12	0.00	0.00	Structures	Sluice/Slide Gates		N	Inspector Comments: These items do not exist at this structure.	37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	12
13	0.00	0.00	Structures	Electric Gate Operators		N	Inspector Comments: This item does not exist at this structure.	37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	13
14	0.00	0.00	Structures	Manual Gate Operators		N	Inspector Comments: This item does not exist at this structure.	37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	14

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 3		07/24/2013 07/24/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
15	0.00	0.00	Structures	Concrete Surfaces		A	Inspector Comments: No visible damage.	37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	15
16	0.00	0.00	Structures	Concrete Tilting / Settlement		A	Inspector Comments: No visible movement or settlement.	37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	16
17	0.00	0.00	Structures	Concrete Foundations		A	Inspector Comments: No visible undermining or erosion.	37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	17
18	0.00	0.00	Structures	Security Fencing		N	Inspector Comments: This item does not exist at this structure.	37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	18
19	0.00	0.00	Structures	Closure Structures		N	Inspector Comments: This item does not exist at this structure.	37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	19
20	0.00	0.00	Structures	Trash Rakes		N	Inspector Comments: This item does not exist at this structure.	37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	20
21	0.00	0.00	Structures	Other Metallic Items		N	Inspector Comments: This item does not exist at this structure.	37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	21
22	0.00	0.00	Structures	Monolith Joints		A	Inspector Comments: All joints appears to be in good condition.	37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	22
23	0.00	0.00	Structures	Safety		A	Inspector Comments: No visible safety hazards.	37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	23
24	0.00	0.00	Structures	Operation & Maintenance Manual		A	Inspector Comments: The manual is on file in the office.	37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	24

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment  
C : Corrected



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 3		07/24/2013 07/24/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation

Looking east at downstream overview of structure.

Richard\_t\_20130730\_153.JPG



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation

Looking north at overview of structure.

Richard\_t\_20130730\_154.JPG



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation

Looking at side overview of structure.

Richard\_t\_20130730\_155.JPG



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 3		07/24/2013 07/24/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation
Looking northwest at downstream side of structure.	
Richard_t_20130730_156.JPG	

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance****Unit Cover Sheet****2013 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
Ash Slough Drop Structure No. 4

Structure Rating	<a href="#">A</a>
Date of Inspection	<a href="#">07/24/2013</a>
DWR Inspector	<a href="#">Richard Willoughby</a>
Accompanied By	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 4		07/24/2013 07/24/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	0.00	Structures	Photo Documentation		N		37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	1 Y
2	0.00	0.00	Structures	Vegetation & Obstructions		A	Inspector Comments: Trees should be removed from around structure.	37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	2
3	0.00	0.00	Structures	Shoaling / Sedimentation		A	Inspector Comments: No visible shoaling or sedimentation present.	37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	3
4	0.00	0.00	Structures	Erosion / Bank Caving		A	Inspector Comments: No erosion visible.	37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	4
5	0.00	0.00	Structures	Revetments		M	Inspector Comments: No riprap on the upstream side of structure.	37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	5 Y
6	0.00	0.00	Structures	Encroachments		M	Inspector Comments: Landowner blocking structure with sand dam. The dam would likely wash out during a high water event.	37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	6 Y
7	0.00	0.00	Structures	Culverts: Inlets / Outlets		N	Inspector Comments: This item does not exist on this structure.	37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	7
8	0.00	0.00	Structures	Culverts: Breaks / Holes / Cracks		N	Inspector Comments: This item does not exist.	37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	8
9	0.00	0.00	Structures	Metal Pipes		N	Inspector Comments: This structure was not designed for culverts, but the landowner installed unauthorized culverts through the unauthorized sand dam. See encroachment item for pictures of pipes.	37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	9
10	0.00	0.00	Structures	Trash Racks		N	Inspector Comments: This item does not exist on this structure.	37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	10
11	0.00	0.00	Structures	Flap Gates		N	Inspector Comments: This item does not exist on this structure.	37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	11
12	0.00	0.00	Structures	Sluice/Slide Gates		N	Inspector Comments: This item does not exist on this structure.	37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	12
13	0.00	0.00	Structures	Electric Gate Operators		N	Inspector Comments: This item does not exist on this structure.	37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	13
14	0.00	0.00	Structures	Manual Gate Operators		N	Inspector Comments: This item does not exist on this structure.	37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	14

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 4		07/24/2013 07/24/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
15	0.00	0.00	Structures	Concrete Surfaces		A	Inspector Comments: No visible damage.	37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	15
16	0.00	0.00	Structures	Concrete Tilting / Settlement		A	Inspector Comments: No visible movement or settlement.	37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	16
17	0.00	0.00	Structures	Concrete Foundations		A	Inspector Comments: No visible undermining at the structure.	37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	17
18	0.00	0.00	Structures	Security Fencing		N	Inspector Comments: This item does not exist at this structure.	37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	18
19	0.00	0.00	Structures	Closure Structures		N	Inspector Comments: This item does not exist at this structure.	37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	19
20	0.00	0.00	Structures	Trash Rakes		N	Inspector Comments: This item does not exist at this structure.	37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	20
21	0.00	0.00	Structures	Other Metallic Items		N	Inspector Comments: No metal items at this structure.	37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	21
22	0.00	0.00	Structures	Monolith Joints		A	Inspector Comments: All joints appear to be in good condition.	37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	22
23	0.00	0.00	Structures	Safety		A	Inspector Comments: No safety hazards visible.	37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	23
24	0.00	0.00	Structures	Operation & Maintenance Manual		A	Inspector Comments: The manual is on file in the office.	37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	24

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 4		07/24/2013 07/24/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation

Looking north at dam across upstream side of structure.

Richard\_t\_20130730\_157.JPG



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation

Looking north at downstream side of structure.

Richard\_t\_20130730\_158.JPG



Levee Mile Report Line	5
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Revetments

Looking south at upstream side of structure.

Richard\_t\_20130730\_160.JPG



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 4		07/24/2013 07/24/2013	Richard Willoughby

Levee Mile Report Line	5
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Revetments
Looking south at downstream side of structure.	
Richard_t_20130730_161.JPG	



Levee Mile Report Line	6
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Encroachments
Looking east at sand dam on upstream side of drop structure # 4.	
richard_t_20130715_014.JPG	



Levee Mile Report Line	6
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Encroachments
Looking east at dam across upstream side of structure. (2013)	
Richard_t_20130730_159.JPG	

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance****Unit Cover Sheet****2013 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
Bear Creek Diversion Structure

Structure Rating	<a href="#">A</a>
Date of Inspection	<a href="#">07/23/2013</a>
DWR Inspector	<a href="#">Richard Willoughby</a>
Accompanied By	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure						Structure Length	Inspection Start/End	Inspector
Bear Creek Diversion Structure							07/23/2013 07/23/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	0.00	Structures	Photo Documentation		N	Inspector Comments: Item appears to be acceptably maintained.	37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	1 Y
2	0.00	0.00	Structures	Vegetation & Obstructions		A	Inspector Comments: Small amount of vegetation on downstream side of structure.	37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	2
3	0.00	0.00	Structures	Shoaling / Sedimentation		A	Inspector Comments: No sedimentation or shoaling visible.	37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	3
4	0.00	0.00	Structures	Erosion / Bank Caving		A	Inspector Comments: No visible erosion near the structure.	37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	4
5	0.00	0.00	Structures	Revetments		A	Inspector Comments: Existing revetment is properly maintained.	37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	5
6	0.00	0.00	Structures	Encroachments		A	Inspector Comments: Steveson Irrigation replaced pvc electrical conduit with half inch steel pipe.	37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	6 Y
7	0.00	0.00	Structures	Culverts: Inlets / Outlets		A	Inspector Comments: There are no debris blocking the culverts.	37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	7 Y
8	0.00	0.00	Structures	Culverts: Breaks / Holes / Cracks		A	Inspector Comments: No visible damage to culverts.	37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	8
9	0.00	0.00	Structures	Metal Pipes		N	Inspector Comments: Item does not exist on this structure.	37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	9
10	0.00	0.00	Structures	Trash Racks		N	Inspector Comments: Item does not exist on this structure.	37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	10
11	0.00	0.00	Structures	Flap Gates		N	Inspector Comments: Item does not exist on this structure.	37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	11
12	0.00	0.00	Structures	Sluice/Slide Gates		N	Inspector Comments: Item does not exist on this structure.	37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	12
13	0.00	0.00	Structures	Electric Gate Operators		A	Inspector Comments: Steven Irrigation District installed an electric gate on upstream side of structure. CVFPB approved permit for electric gate.	37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	13
14	0.00	0.00	Structures	Manual Gate Operators		A	Inspector Comments: All gates appear to be in good working condition.	37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	14
15	0.00	0.00	Structures	Concrete Surfaces		M	Inspector Comments: Small cracking on downstream left wing wall.	37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	15 Y

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment  
C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure						Structure Length	Inspection Start/End	Inspector
Bear Creek Diversion Structure							07/23/2013 07/23/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
16	0.00	0.00	Structures	Concrete Tilting / Settlement		A	Inspector Comments: No visible settlement present.	37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	16
17	0.00	0.00	Structures	Concrete Foundations		A	Inspector Comments: No visible erosion near foundation.	37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	17 Y
18	0.00	0.00	Structures	Security Fencing		N	Inspector Comments: Item does not exist on this structure.	37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	18
19	0.00	0.00	Structures	Closure Structures		N	Inspector Comments: Item does not exist on this structure.	37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	19
20	0.00	0.00	Structures	Trash Rakes		N	Inspector Comments: Item does not exist on this structure.	37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	20
21	0.00	0.00	Structures	Other Metallic Items		N	Inspector Comments: Item does not exist on this structure.	37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	21
22	0.00	0.00	Structures	Monolith Joints		A	Inspector Comments: No visible joint deterioration.	37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	22
23	0.00	0.00	Structures	Safety		A	Inspector Comments: No visible hazards near the structure.	37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	23
24	0.00	0.00	Structures	Operation & Maintenance Manual		A	Inspector Comments: The manual is on file in the office.	37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	24

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
Bear Creek Diversion Structure		07/23/2013 07/23/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation

Looking east at overview of downstream side of structure

richard\_t\_20130729\_094.JPG



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation

Looking north at overview of structure

richard\_t\_20130729\_095.JPG



Levee Mile Report Line	6
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Encroachments

Looking at new electrical conduit on downstream side of structure.

richard\_t\_20130715\_020.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
Bear Creek Diversion Structure		07/23/2013 07/23/2013	Richard Willoughby

Levee Mile Report Line	6
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Encroachments
Looking east at electrical conduit trench on southside of structure.	
richard_t_20130715_021.JPG	



Levee Mile Report Line	6
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Encroachments
Looking north at electric control gate on east side of structure.	
richard_t_20130715_022.JPG	



Levee Mile Report Line	7
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Culverts: Inlets / Outlets
Looking at north at outlet side of structure.	
richard_t_20130729_096.JPG	

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
Bear Creek Diversion Structure		07/23/2013 07/23/2013	Richard Willoughby

Levee Mile Report Line	7
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Culverts: Inlets / Outlets
Looking north at inlet side of structure.	
richard_t_20130729_097.JPG	



Levee Mile Report Line	15
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Concrete Surfaces
Looking at cracking on left wing wall.	
richard_t_20130715_023.jpg	



Levee Mile Report Line	15
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Concrete Surfaces
Looking northwest at cracking on left wing wall	
richard_t_20130715_024.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected, see Inspector Comment	C : Corrected
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
Bear Creek Diversion Structure		07/23/2013 07/23/2013	Richard Willoughby

Levee Mile Report Line	15
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Concrete Surfaces
Looking at crack on left wing wall during 2012 inspection.	
richard_t_20130715_025.JPG	



Levee Mile Report Line	15
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Concrete Surfaces
Looking at cracking on left wing wall Summer 2013	
richard_t_20130729_098.JPG	



Levee Mile Report Line	17
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Concrete Foundations
Looking southeast at right wing wall	
richard_t_20130729_099.JPG	

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
Bear Creek Diversion Structure		07/23/2013 07/23/2013	Richard Willoughby

Levee Mile Report Line	17
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Concrete Foundations
Looking northeast at upstream side of left wing wall.	
richard_t_20130729_100.JPG	

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance****Unit Cover Sheet****2013 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
Eastside Bypass Control Structure

Structure Rating	<a href="#">A</a>
Date of Inspection	<a href="#">07/23/2013</a>
DWR Inspector	<a href="#">Richard Willoughby</a>
Accompanied By	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure						Structure Length	Inspection Start/End	Inspector
Eastside Bypass Control Structure							07/23/2013 07/23/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	0.00	Structures	Photo Documentation		N		37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	1 Y
2	0.00	0.00	Structures	Vegetation & Obstructions		A	Inspector Comments: No visible vegetation issues.	37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	2
3	0.00	0.00	Structures	Shoaling / Sedimentation		A	Inspector Comments: No shoaling or sedimentation visible.	37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	3
4	0.00	0.00	Structures	Erosion / Bank Caving		A	Inspector Comments: No active erosion present.	37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	4
5	0.00	0.00	Structures	Revetments		A	Inspector Comments: No revetments issues.	37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	5
6	0.00	0.00	Structures	Encroachments		A	Inspector Comments: Minor debris inside bays.	37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	6
7	0.00	0.00	Structures	Culverts: Inlets / Outlets		A	Inspector Comments: No debris visible.	37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	7
8	0.00	0.00	Structures	Culverts: Breaks / Holes / Cracks		A	Inspector Comments: No visible problems.	37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	8
9	0.00	0.00	Structures	Metal Pipes		N	Inspector Comments: Item does not exist on this structure.	37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	9
10	0.00	0.00	Structures	Trash Racks		N	Inspector Comments: Item does not exist on this structure.	37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	10
11	0.00	0.00	Structures	Flap Gates		N	Inspector Comments: Item does not exist on this structure.	37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	11
12	0.00	0.00	Structures	Sluice/Slide Gates		A	Inspector Comments: Item appears to be adequately maintained and able to perform as intended. But grease fittings not connect to hing point on gates.	37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	12 Y
13	0.00	0.00	Structures	Electric Gate Operators		A	Inspector Comments: Item appears to be adequately maintained and able to perform as intended.	37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	13 Y
14	0.00	0.00	Structures	Manual Gate Operators		A	Inspector Comments: Item appears to be adequately maintained and able to perform as intended.	37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	14
15	0.00	0.00	Structures	Concrete Surfaces		A	Inspector Comments: Item appears to be acceptably maintained.	37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	15
16	0.00	0.00	Structures	Concrete Tilting / Settlement		A	Inspector Comments: No visible movement at or near structure.	37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	16

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment  
C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure						Structure Length	Inspection Start/End	Inspector
Eastside Bypass Control Structure							07/23/2013 07/23/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
17	0.00	0.00	Structures	Concrete Foundations		A	Inspector Comments: No visible erosion near foundation.	37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	17 Y
18	0.00	0.00	Structures	Security Fencing		A	Inspector Comments: Security fencing around electrical house is in good condition. Light fixtures near electrical gates should be replaced.	37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	18
19	0.00	0.00	Structures	Closure Structures		A	Inspector Comments: No visible problem with stoplogs on upstream side of structure.	37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	19
20	0.00	0.00	Structures	Trash Rakes		N	Inspector Comments: Item does not exist on this structure.	37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	20
21	0.00	0.00	Structures	Other Metallic Items		A	Inspector Comments: Some minor rust on control gates.	37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	21
22	0.00	0.00	Structures	Monolith Joints		A	Inspector Comments: No visible joint deterioration.	37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	22
23	0.00	0.00	Structures	Safety		M	Inspector Comments: Need to replace light fixtures on upstream side of structure.	37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	23 Y
24	0.00	0.00	Structures	Operation & Maintenance Manual		A	Inspector Comments: The manual is on file in the office.	37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	24

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment  
C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Control Structure		07/23/2013 07/23/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation

Looking southwest at downstream side of structure.

richard\_t\_20130729\_112.JPG



Levee Mile Report Line	12
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Sluice/Slide Gates

Looking at typical of control gates.

richard\_t\_20130729\_113.JPG



Levee Mile Report Line	12
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Sluice/Slide Gates

Looking south at control gates.

richard\_t\_20130729\_115.JPG



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Control Structure		07/23/2013 07/23/2013	Richard Willoughby

Levee Mile Report Line	12
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Sluice/Slide Gates
Looking at grease tube disconnected from hing point.	
richard_t_20130729_117.JPG	



Levee Mile Report Line	13
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Electric Gate Operators
Looking north at several electric motors on upstream side of structure	
richard_t_20130715_031.JPG	



Levee Mile Report Line	17
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Concrete Foundations
Looking at typical of control structure bay.	
richard_t_20130729_114.JPG	

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Control Structure		07/23/2013 07/23/2013	Richard Willoughby

Levee Mile Report Line	23
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Safety
Looking at missing light fixtures near electric gate operators.	
richard_t_20130729_116.JPG	

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance****Unit Cover Sheet****2013 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
Eastside Bypass Drop Structure No. 1

Structure Rating	<b>A</b>
Date of Inspection	07/24/2013
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure						Structure Length	Inspection Start/End	Inspector
Eastside Bypass Drop Structure No. 1							07/24/2013 07/24/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	0.00	Structures	Photo Documentation		N	Inspector Comments: Item appears to be acceptably maintained.	36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	1 Y
2	0.00	0.00	Structures	Vegetation & Obstructions		A	Inspector Comments: No vegetation issue visible.	36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	2
3	0.00	0.00	Structures	Shoaling / Sedimentation		A	Inspector Comments: No shoaling or sedimentation issue visible.	36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	3
4	0.00	0.00	Structures	Erosion / Bank Caving		M	Inspector Comments: Some minor caving on right wing wall.	36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	4 Y
5	0.00	0.00	Structures	Revetments		A	Inspector Comments: Item appears to be acceptably maintained	36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	5 Y
6	0.00	0.00	Structures	Encroachments		A	Inspector Comments: No visible encroachments near structure.	36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	6
7	0.00	0.00	Structures	Culverts: Inlets / Outlets		N	Inspector Comments: Item does not exist on this structure.	36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	7
8	0.00	0.00	Structures	Culverts: Breaks / Holes / Cracks		N	Inspector Comments: Item does not exist on this structure.	36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	8
9	0.00	0.00	Structures	Metal Pipes		N	Inspector Comments: Item does not exist on this structure.	36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	9
10	0.00	0.00	Structures	Trash Racks		N	Inspector Comments: Item does not exist on this structure.	36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	10
11	0.00	0.00	Structures	Flap Gates		N	Inspector Comments: Item does not exist on this structure.	36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	11
12	0.00	0.00	Structures	Sluice/Slide Gates		N	Inspector Comments: Item does not exist on this structure.	36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	12
13	0.00	0.00	Structures	Electric Gate Operators		N	Inspector Comments: Item does not exist on this structure.	36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	13
14	0.00	0.00	Structures	Manual Gate Operators		N	Inspector Comments: Item does not exist on this structure.	36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	14
15	0.00	0.00	Structures	Concrete Surfaces		A	Inspector Comments: No visible cracking on concrete surfaces.	36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	15
16	0.00	0.00	Structures	Concrete Tilting / Settlement		A	Inspector Comments: No visible settlement near the structure.	36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	16

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure						Structure Length	Inspection Start/End	Inspector
Eastside Bypass Drop Structure No. 1							07/24/2013 07/24/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
17	0.00	0.00	Structures	Concrete Foundations		A	Inspector Comments: No visible movement near the structure.	36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	17
18	0.00	0.00	Structures	Security Fencing		N	Inspector Comments: Item does not exist on this structure.	36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	18
19	0.00	0.00	Structures	Closure Structures		N	Inspector Comments: Item does not exist on this structure.	36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	19
20	0.00	0.00	Structures	Trash Rakes		N	Inspector Comments: Item does not exist on this structure.	36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	20
21	0.00	0.00	Structures	Other Metallic Items		A	Inspector Comments: No visible deterioration.	36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	21
22	0.00	0.00	Structures	Monolith Joints		A	Inspector Comments: Some minor movement at wing wall joint.	36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	22
23	0.00	0.00	Structures	Safety		A	Inspector Comments: No visible safety issues.	36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	23
24	0.00	0.00	Structures	Operation & Maintenance Manual		A	Inspector Comments: The manual is on file in the office.	36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	24

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
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PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment  
C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Drop Structure No. 1		07/24/2013 07/24/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation

Looking south at side overview of structure.

Richard\_t\_20130730\_170.JPG



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation

Looking at overview of structure.

Richard\_t\_20130730\_171.JPG



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation

Looking southwest at downstream side of structure.

Richard\_t\_20130730\_172.JPG



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Drop Structure No. 1		07/24/2013 07/24/2013	Richard Willoughby

Levee Mile Report Line	4
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Erosion / Bank Caving
Looking at erosion/caving on right wing wall.	
richard_t_20130715_035.JPG	



Levee Mile Report Line	5
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Revetments
Looking south at revemento on downstream side of structure.	
Richard_t_20130730_173.JPG	

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance****Unit Cover Sheet****2013 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
Eastside Bypass Drop Structure No. 2

Structure Rating	<b>A</b>
Date of Inspection	07/24/2013
DWR Inspector	Richard Willoughby
Accompanied By	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure						Structure Length	Inspection Start/End	Inspector
Eastside Bypass Drop Structure No. 2							07/24/2013 07/24/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	0.00	Structures	Photo Documentation		N		36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	1 Y
2	0.00	0.00	Structures	Vegetation & Obstructions		A	Inspector Comments: No vegetation or obstructions that would impeded flow present.	36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	2
3	0.00	0.00	Structures	Shoaling / Sedimentation		A	Inspector Comments: No sedimentation or shoaling present.	36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	3
4	0.00	0.00	Structures	Erosion / Bank Caving		A	Inspector Comments: No visible erosion or caving present.	36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	4
5	0.00	0.00	Structures	Revetments		A	Inspector Comments: Revetment appears to be properly maintained.	36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	5 Y
6	0.00	0.00	Structures	Encroachments		A	Inspector Comments: No visible encroachments.	36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	6
7	0.00	0.00	Structures	Culverts: Inlets / Outlets		N	Inspector Comments: This item does not exist at this structure.	36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	7
8	0.00	0.00	Structures	Culverts: Breaks / Holes / Cracks		N	Inspector Comments: This item does not exist at this structure.	36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	8
9	0.00	0.00	Structures	Metal Pipes		N	Inspector Comments: This item does not exist at this structure.	36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	9
10	0.00	0.00	Structures	Trash Racks		N	Inspector Comments: This item does not exist at this structure.	36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	10
11	0.00	0.00	Structures	Flap Gates		N	Inspector Comments: This item does not exist at this structure.	36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	11
12	0.00	0.00	Structures	Sluice/Slide Gates		N	Inspector Comments: This item does not exist at this structure.	36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	12
13	0.00	0.00	Structures	Electric Gate Operators		N	Inspector Comments: This item does not exist at this structure.	36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	13
14	0.00	0.00	Structures	Manual Gate Operators		N	Inspector Comments: This item does not exist at this structure.	36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	14
15	0.00	0.00	Structures	Concrete Surfaces		A	Inspector Comments: No visible damage.	36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	15

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment  
C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure						Structure Length	Inspection Start/End	Inspector
Eastside Bypass Drop Structure No. 2							07/24/2013 07/24/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
16	0.00	0.00	Structures	Concrete Tilting / Settlement		A	Inspector Comments: No visible movement or settlement present.	36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	16
17	0.00	0.00	Structures	Concrete Foundations		A	Inspector Comments: No visible erosion or undermining near the structure.	36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	17
18	0.00	0.00	Structures	Security Fencing		N	Inspector Comments: This item does not exist at this structure.	36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	18
19	0.00	0.00	Structures	Closure Structures		N	Inspector Comments: This item does not exist at this structure.	36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	19
20	0.00	0.00	Structures	Trash Rakes		N	Inspector Comments: This item does not exist at this structure.	36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	20
21	0.00	0.00	Structures	Other Metallic Items		N	Inspector Comments: This item does not exist at this structure.	36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	21
22	0.00	0.00	Structures	Monolith Joints		M	Inspector Comments: Minor joint separation occurring on left side of structure.	36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	22 Y
23	0.00	0.00	Structures	Safety		A	Inspector Comments: No visible safety hazards.	36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	23
24	0.00	0.00	Structures	Operation & Maintenance Manual		A	Inspector Comments: The manual is on file in the office.	36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	24

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

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U : Unacceptable  
PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Drop Structure No. 2		07/24/2013 07/24/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation

Looking south at upstream side of structure.

Richard\_t\_20130730\_167.JPG



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation

Looking south at side overview of side.

Richard\_t\_20130730\_168.JPG



Levee Mile Report Line	5
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Revetments

Looking south at revement on downstream side of structure.

Richard\_t\_20130730\_169.JPG



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

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U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Drop Structure No. 2		07/24/2013 07/24/2013	Richard Willoughby

Levee Mile Report Line	22
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Monolith Joints

Looking at joint separation on left side of structure.

richard\_t\_20130715\_039.JPG



Levee Mile Report Line	22
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Monolith Joints

Looking at joint separation on left side of structure (2013)

Richard\_t\_20130730\_166.JPG



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance****Unit Cover Sheet****2013 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
Fresno River Drainage Structure

Structure Rating	<a href="#">A</a>
Date of Inspection	<a href="#">07/24/2013</a>
DWR Inspector	<a href="#">Richard Willoughby</a>
Accompanied By	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure						Structure Length	Inspection Start/End	Inspector
Fresno River Drainage Structure							07/24/2013 07/24/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	0.00	Structures	Photo Documentation		N	Inspector Comments: Item appears to be acceptably maintained.	36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	1 Y
2	0.00	0.00	Structures	Vegetation & Obstructions		A	Inspector Comments: No visible vegetation issues present.	36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	2
3	0.00	0.00	Structures	Shoaling / Sedimentation		A	Inspector Comments: No shoaling or sedimentation issues visible.	36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	3
4	0.00	0.00	Structures	Erosion / Bank Caving		A	Inspector Comments: No visible erosion.	36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	4
5	0.00	0.00	Structures	Revetments		A	Inspector Comments: All revetment is good condition.	36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	5
6	0.00	0.00	Structures	Encroachments		A	Inspector Comments: No visible encroachments present.	36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	6
7	0.00	0.00	Structures	Culverts: Inlets / Outlets		A	Inspector Comments: No visible debris blocking item.	36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	7 Y
8	0.00	0.00	Structures	Culverts: Breaks / Holes / Cracks		A	Inspector Comments: No visible problem present.	36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	8
9	0.00	0.00	Structures	Metal Pipes		N	Inspector Comments: Item does not exist on this structure.	36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	9
10	0.00	0.00	Structures	Trash Racks		N	Inspector Comments: Item does not exist on this structure.	36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	10
11	0.00	0.00	Structures	Flap Gates		A	Inspector Comments: Flap gates appears and good condition.	36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	11 Y
12	0.00	0.00	Structures	Sluice/Slide Gates		A	Inspector Comments: Slide gates appears in good condition.	36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	12
13	0.00	0.00	Structures	Electric Gate Operators		N	Inspector Comments: Item does not exist on this structure.	36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	13
14	0.00	0.00	Structures	Manual Gate Operators		A	Inspector Comments: Missing wheels on screw gate.	36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	14 Y
15	0.00	0.00	Structures	Concrete Surfaces		A	Inspector Comments: No visible cracking on concrete surfaces.	36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	15
16	0.00	0.00	Structures	Concrete Tilting / Settlement		A	Inspector Comments: No visible tilting or settlement present.	36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	16

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure						Structure Length	Inspection Start/End	Inspector
Fresno River Drainage Structure							07/24/2013 07/24/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
17	0.00	0.00	Structures	Concrete Foundations		A	Inspector Comments: No foundation problem visible.	36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	17
18	0.00	0.00	Structures	Security Fencing		N	Inspector Comments: Item does not exist on this structure.	36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	18
19	0.00	0.00	Structures	Closure Structures		N	Inspector Comments: Item does not exist on this structure.	36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	19
20	0.00	0.00	Structures	Trash Rakes		N	Inspector Comments: Item does not exist on this structure.	36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	20
21	0.00	0.00	Structures	Other Metallic Items		A	Inspector Comments: No visible deterioration.	36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	21
22	0.00	0.00	Structures	Monolith Joints		A	Inspector Comments: No joint problem visible.	36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	22
23	0.00	0.00	Structures	Safety		A	Inspector Comments: No safety issues visible.	36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	23
24	0.00	0.00	Structures	Operation & Maintenance Manual		A	Inspector Comments: The manual is on file in the office.	36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	24

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
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U : Unacceptable  
PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment  
C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
Fresno River Drainage Structure		07/24/2013 07/24/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation
Looking west at screw gates on outlet side of structure.	
richard_t_20130715_040.JPG	



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation
Looking southwest at control gates on downstream side of structure.	
Richard_t_20130730_162.JPG	



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation
Looking southwest at inlet side of structure.	
Richard_t_20130730_164.JPG	

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
Fresno River Drainage Structure		07/24/2013 07/24/2013	Richard Willoughby

Levee Mile Report Line	7
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Culverts: Inlets / Outlets
Looking west at overview of inlet.	
richard_t_20130715_041.JPG	



Levee Mile Report Line	11
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Flap Gates
Looking west at flap gates.	
richard_t_20130715_042.JPG	



Levee Mile Report Line	11
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Flap Gates
Looking southeast at flap gates on downstream side of structure.	
Richard_t_20130730_163.JPG	

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

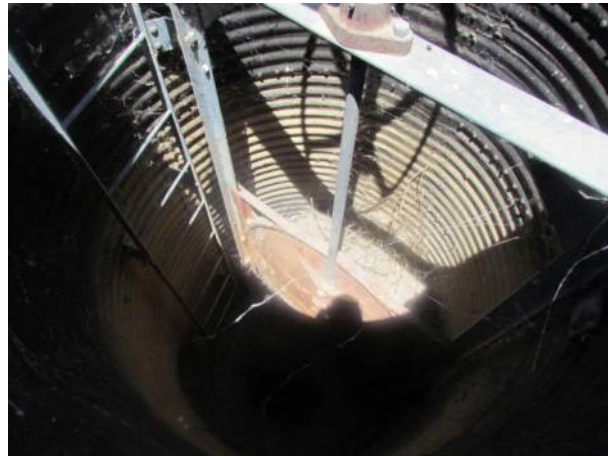
**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
Fresno River Drainage Structure		07/24/2013 07/24/2013	Richard Willoughby

Levee Mile Report Line	14
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Manual Gate Operators
Looking south at screw gates	
richard_t_20130715_043.JPG	



Levee Mile Report Line	14
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Manual Gate Operators
Looking at screw gate inside can.	
richard_t_20130715_044.JPG	



Levee Mile Report Line	14
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Manual Gate Operators
Looking at typical view of screw gate on outlet side of structure.	
Richard_t_20130730_165.JPG	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected, see Inspector Comment	C : Corrected
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**Flood Control Project Maintenance****Unit Cover Sheet****2013 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
Mariposa Bypass Control Structure

Structure Rating	A
Date of Inspection	07/23/2013
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure						Structure Length	Inspection Start/End	Inspector
Mariposa Bypass Control Structure							07/23/2013 07/23/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	0.00	Structures	Photo Documentation	WS	N	Inspector Comments: Item appears to be adequately maintained and able to perform as intended.	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	1 Y
2	0.00	0.00	Structures	Vegetation & Obstructions	WS	A	Inspector Comments: No visible vegetation or obstructions impeding the flow.	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	2
3	0.00	0.00	Structures	Shoaling / Sedimentation	WS	A	Inspector Comments: No sedimentation build-up or shoaling near the structure.	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	3
4	0.00	0.00	Structures	Erosion / Bank Caving	WS	A	Inspector Comments: No visible erosion near the structure.	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	4
5	0.00	0.00	Structures	Revetments	WS	A	Inspector Comments: All revetments appears to be properly maintained.	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	5
6	0.00	0.00	Structures	Encroachments	WS	A	Inspector Comments: No encroachments near the structure.	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	6
7	0.00	0.00	Structures	Culverts: Inlets / Outlets	WS	A	Inspector Comments: No debris blocking culverts.	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	7
8	0.00	0.00	Structures	Culverts: Breaks / Holes / Cracks	WS	A	Inspector Comments: No visible damage to culverts.	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	8
9	0.00	0.00	Structures	Metal Pipes	WS	N	Inspector Comments: Item does not exist on this structure.	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	9
10	0.00	0.00	Structures	Trash Racks	WS	A	Inspector Comments: Trash rack on manual control gate in good condition.	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	10 Y
11	0.00	0.00	Structures	Flap Gates	WS	N	Inspector Comments: Item does not exist on this structure.	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	11
12	0.00	0.00	Structures	Sluice/Slide Gates	WS	A	Inspector Comments: No visible damage, sediment or obstructions inspected.	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	12 Y
13	0.00	0.00	Structures	Electric Gate Operators	WS	A	Inspector Comments: Electrical gates are in proper working conditions.	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	13 Y
14	0.00	0.00	Structures	Manual Gate Operators	WS	M	Inspector Comments: Manual gate stem bent.	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	14 Y
15	0.00	0.00	Structures	Concrete Surfaces	WS	A	Inspector Comments: No visible damage to concrete surfaces.	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	15

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure						Structure Length	Inspection Start/End	Inspector
Mariposa Bypass Control Structure							07/23/2013 07/23/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
16	0.00	0.00	Structures	Concrete Tilting / Settlement	WS	A	Inspector Comments: No visible movement along the structure.	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	16
17	0.00	0.00	Structures	Concrete Foundations	WS	A	Inspector Comments: No visible undermining near the structure.	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	17
18	0.00	0.00	Structures	Security Fencing	WS	N	Inspector Comments: Item does not exist on this structure.	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	18
19	0.00	0.00	Structures	Closure Structures	WS	N	Inspector Comments: Item does not exist on this structure.	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	19
20	0.00	0.00	Structures	Trash Rakes	WS	N	Inspector Comments: Item does not exist on this structure.	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	20
21	0.00	0.00	Structures	Other Metallic Items	WS	A	Inspector Comments: No visible corrosion.	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	21
22	0.00	0.00	Structures	Monolith Joints	WS	A	Inspector Comments: Minor joint cracking on curve on south end of upstream side of structure.	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	22 Y
23	0.00	0.00	Structures	Safety	WS	A	Inspector Comments: No safety hazards visible.	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	23
24	0.00	0.00	Structures	Operation & Maintenance Manual	WS	A	Inspector Comments: The manual is on file in the office.	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	24

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment  
C : Corrected



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
Mariposa Bypass Control Structure		07/23/2013 07/23/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	Water Side
Category	Structures
Item	Photo Documentation

Looking east at upstream side of structure.

Richard\_t\_20130730\_123.JPG



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	Water Side
Category	Structures
Item	Photo Documentation

Looking south at overview of structure.

Richard\_t\_20130730\_124.JPG



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	Water Side
Category	Structures
Item	Photo Documentation

Looking south at upstream side of structure.

Richard\_t\_20130730\_125.JPG



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
Mariposa Bypass Control Structure		07/23/2013 07/23/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	Water Side
Category	Structures
Item	Photo Documentation

Looking east at typical view of gate and bay from the upstream side of structure.

Richard\_t\_20130730\_126.JPG



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	Water Side
Category	Structures
Item	Photo Documentation

Looking east at typical view of structure bay

Richard\_t\_20130730\_127.JPG



Levee Mile Report Line	10
Start Levee Mile	0.00
End Levee Mile	0.00
Location	Water Side
Category	Structures
Item	Trash Racks

Looking southwest at trash rack on downstream side of structure.

Richard\_t\_20130730\_129.JPG



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
Mariposa Bypass Control Structure		07/23/2013 07/23/2013	Richard Willoughby

Levee Mile Report Line	12
Start Levee Mile	0.00
End Levee Mile	0.00
Location	Water Side
Category	Structures
Item	Sluice/Slide Gates

Looking at gates on downstream side of structure.

Richard\_t\_20130730\_130.JPG



Levee Mile Report Line	13
Start Levee Mile	0.00
End Levee Mile	0.00
Location	Water Side
Category	Structures
Item	Electric Gate Operators

Looking south at typical view of electric gate operators on downstream side of structure.

Richard\_t\_20130730\_131.JPG



Levee Mile Report Line	14
Start Levee Mile	0.00
End Levee Mile	0.00
Location	Water Side
Category	Structures
Item	Manual Gate Operators

Looking southeast at bent stem on manual gate on downstream side of structure.

Richard\_t\_20130730\_128.JPG



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
Mariposa Bypass Control Structure		07/23/2013 07/23/2013	Richard Willoughby

Levee Mile Report Line	22
Start Levee Mile	0.00
End Levee Mile	0.00
Location	Water Side
Category	Structures
Item	Monolith Joints

Looking east at minor crack on joint at top of structure on the downstream side of structure.

Richard\_t\_20130730\_132.JPG



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance****Unit Cover Sheet****2013 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
Mariposa Bypass Drop Structure

Structure Rating	<a href="#">A</a>
Date of Inspection	<a href="#">07/23/2013</a>
DWR Inspector	<a href="#">Richard Willoughby</a>
Accompanied By	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure						Structure Length	Inspection Start/End	Inspector
Mariposa Bypass Drop Structure							07/23/2013 07/23/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	0.00	Structures	Photo Documentation		N	Inspector Comments: Structure appears to be maintained and able to perform as intended.	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	1 Y
2	0.00	0.00	Structures	Vegetation & Obstructions		A	Inspector Comments: No vegetation or obstructions near the structure that would impeded the flow.	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	2
3	0.00	0.00	Structures	Shoaling / Sedimentation		A	Inspector Comments: No sedimentation build-up or shoaling near the structure.	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	3
4	0.00	0.00	Structures	Erosion / Bank Caving		A	Inspector Comments: No erosion near the structure.	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	4
5	0.00	0.00	Structures	Revetments		A	Inspector Comments: Revetment not viewable due to high water flows.	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	5
6	0.00	0.00	Structures	Encroachments		A	Inspector Comments: No visible encroachments near the structure.	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	6
7	0.00	0.00	Structures	Culverts: Inlets / Outlets		N	Inspector Comments: Item does not exist on this structure.	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	7
8	0.00	0.00	Structures	Culverts: Breaks / Holes / Cracks		N	Inspector Comments: Item does not exist on this structure.	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	8
9	0.00	0.00	Structures	Metal Pipes		N	Inspector Comments: Item does not exist on this structure.	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	9
10	0.00	0.00	Structures	Trash Racks		N	Inspector Comments: Item does not exist on this structure.	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	10
11	0.00	0.00	Structures	Flap Gates		N	Inspector Comments: Item does not exist on this structure.	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	11
12	0.00	0.00	Structures	Sluice/Slide Gates		N	Inspector Comments: Item does not exist on this structure.	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	12
13	0.00	0.00	Structures	Electric Gate Operators		N	Inspector Comments: Item does not exist on this structure.	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	13
14	0.00	0.00	Structures	Manual Gate Operators		N	Inspector Comments: Item does not exist on this structure.	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	14
15	0.00	0.00	Structures	Concrete Surfaces		A	Inspector Comments: No visible damage to concrete surface.	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	15
16	0.00	0.00	Structures	Concrete Tilting / Settlement		A	Inspector Comments: No visible movement along the structure.	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	16

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure						Structure Length	Inspection Start/End	Inspector
Mariposa Bypass Drop Structure							07/23/2013 07/23/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
17	0.00	0.00	Structures	Concrete Foundations		A	Inspector Comments: No visible undermining near the structure.	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	17
18	0.00	0.00	Structures	Security Fencing		N	Inspector Comments: Item does not exist on this structure.	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	18
19	0.00	0.00	Structures	Closure Structures		N	Inspector Comments: Item does not exist on this structure.	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	19
20	0.00	0.00	Structures	Trash Rakes		N	Inspector Comments: Item does not exist on this structure.	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	20
21	0.00	0.00	Structures	Other Metallic Items		N	Inspector Comments: Item does not exist on this structure.	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	21
22	0.00	0.00	Structures	Monolith Joints		A	Inspector Comments: Some movement at left wing wall joints.	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	22 Y
23	0.00	0.00	Structures	Safety		A	Inspector Comments: No visible safety hazards.	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	23
24	0.00	0.00	Structures	Operation & Maintenance Manual		A	Inspector Comments: The manual is on file in the office.	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	24

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment  
C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
Mariposa Bypass Drop Structure		07/23/2013 07/23/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation

Looking west at upstream side of structure.

Richard\_t\_20130730\_118.JPG



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation

Looking south at overview of structure.

Richard\_t\_20130730\_119.JPG



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation

Looking south at left wing wall.

Richard\_t\_20130730\_120.JPG



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
Mariposa Bypass Drop Structure		07/23/2013 07/23/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation
Looking at upstream side of structure.	
Richard_t_20130730_121.JPG	



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation
Looking south at right wing wall.	
Richard_t_20130730_122.JPG	



Levee Mile Report Line	22
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Monolith Joints
Looking north at joint on left wing wall on downstream of structure.	
richard_t_20130715_053.JPG	

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
Mariposa Bypass Drop Structure		07/23/2013 07/23/2013	Richard Willoughby

Levee Mile Report Line	22
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Monolith Joints

Looking at joint on left wing wall.

richard\_t\_20130715\_054.JPG



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance****Unit Cover Sheet****2013 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
Owens Creek Control Structure

Structure Rating	<b>M</b>
Date of Inspection	07/23/2013
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
Owens Creek Control Structure		07/23/2013 07/23/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
1	0.00	0.00	Structures	Photo Documentation		N		37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	1 Y
2	0.00	0.00	Structures	Vegetation & Obstructions		A	Inspector Comments: No visible vegetation or obstructions to impeded flow.	37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	2
3	0.00	0.00	Structures	Shoaling / Sedimentation		A	Inspector Comments: No sedimentation or shoaling visible.	37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	3
4	0.00	0.00	Structures	Erosion / Bank Caving		M	Inspector Comments: There is some cracking and animal borrowing occurring on levee embankment on the upstream side near the right wing wall and on the downstream side near the left wing wall. LMA brought in fill material to backfill holes and erosion sites, but more fill material is needed.	37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	4 Y
5	0.00	0.00	Structures	Revetments		A	Inspector Comments: Revetment appears to be properly maintained.	37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	5
6	0.00	0.00	Structures	Encroachments		A	Inspector Comments: No encroachments visible.	37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	6
7	0.00	0.00	Structures	Culverts: Inlets / Outlets		A	Inspector Comments: No visible debris blocking the culverts.	37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	7
8	0.00	0.00	Structures	Culverts: Breaks / Holes / Cracks		A	Inspector Comments: No visible damage to culverts.	37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	8
9	0.00	0.00	Structures	Metal Pipes		N	Inspector Comments: Item does not exist on this structure.	37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	9
10	0.00	0.00	Structures	Trash Racks		N	Inspector Comments: Item does not exist on this structure.	37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	10
11	0.00	0.00	Structures	Flap Gates		N	Inspector Comments: Item does not exist on this structure.	37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	11
12	0.00	0.00	Structures	Sluice/Slide Gates		N	Inspector Comments: Item does not exist on this structure.	37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	12
13	0.00	0.00	Structures	Electric Gate Operators		N	Inspector Comments: Item does not exist on this structure.	37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	13
14	0.00	0.00	Structures	Manual Gate Operators		N	Inspector Comments: Item does not exist on this structure.	37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	14
15	0.00	0.00	Structures	Concrete Surfaces		M	Inspector Comments: Small cracking on upstream left and right wing walls. LMA installed metal braces to stabilize the wing walls on the upstream and downstream sides of the structure.	37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	15 Y

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment  
C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
Owens Creek Control Structure		07/23/2013 07/23/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
16	0.00	0.00	Structures	Concrete Tilting / Settlement		M	Inspector Comments: Concrete tilting/settlement on upstream and downstream left wing walls has been stabilized by the LMA.	37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	16 Y
17	0.00	0.00	Structures	Concrete Foundations		A	Inspector Comments: No visible undermining along the structure.	37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	17
18	0.00	0.00	Structures	Security Fencing		N	Inspector Comments: Item does not exist on this structure.	37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	18
19	0.00	0.00	Structures	Closure Structures		A	Inspector Comments: No visible damage or problems with structure.	37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	19
20	0.00	0.00	Structures	Trash Rakes		N	Inspector Comments: Item does not exist on this structure.	37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	20
21	0.00	0.00	Structures	Other Metallic Items		N	Inspector Comments: Item does not exist on this structure.	37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	21
22	0.00	0.00	Structures	Monolith Joints		M	Inspector Comments: Left & right wing walls joint has been repaired, but still unstable.	37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	22 Y
23	0.00	0.00	Structures	Safety		A	Inspector Comments: No visible hazards.	37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	23
24	0.00	0.00	Structures	Operation & Maintenance Manual		A	Inspector Comments: The manual is on file in the office.	37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	24

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

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PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
Owens Creek Control Structure		07/23/2013 07/23/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation

Looking south at overview of structure.

richard\_t\_20130729\_101.JPG



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation

Looking at upstream side of structure.

richard\_t\_20130729\_102.JPG



Levee Mile Report Line	4
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Erosion / Bank Caving

Looking at new braces on wing wall and more fill material needed.

richard\_t\_20130826\_108.JPG



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

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U : Unacceptable

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CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
Owens Creek Control Structure		07/23/2013 07/23/2013	Richard Willoughby

Levee Mile Report Line	15
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Concrete Surfaces
Looking at right wing wall on upstream side of structure. Minor crack on wall.	
richard_t_20130729_103.JPG	



Levee Mile Report Line	15
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Concrete Surfaces
Looking at left wing wall on upstream side of structure.	
richard_t_20130729_104.JPG	



Levee Mile Report Line	15
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Concrete Surfaces
Looking southeast at braces and large hole on left wing wall on upstream side of structure.	
richard_t_20130729_105.JPG	

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
Owens Creek Control Structure		07/23/2013 07/23/2013	Richard Willoughby

Levee Mile Report Line	15
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Concrete Surfaces
Looking at left wing wall on downstream side of structure.	
richard_t_20130729_106.JPG	



Levee Mile Report Line	15
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Concrete Surfaces
Looking at right wing wall on upstream side of structure.	
richard_t_20130729_107.JPG	



Levee Mile Report Line	16
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Concrete Tilting / Settlement
Looking at repaired right wing wall on downstream side of structure. Summer 2012	
richard_t_20130715_062.JPG	

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
Owens Creek Control Structure		07/23/2013 07/23/2013	Richard Willoughby

Levee Mile Report Line	16
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Concrete Tilting / Settlement

Looking west at brace on right wing wall on downstream side of structure. Summer 2012

richard\_t\_20130715\_063.JPG



Levee Mile Report Line	22
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Monolith Joints

Looking at repaired left wing wall on upstream side of structure. Summer 2012

richard\_t\_20130715\_064.JPG



Levee Mile Report Line	22
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Monolith Joints

Looking at repaired right wing wall on upstream side of structure.

richard\_t\_20130715\_065.JPG



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected



**Flood Control Project Maintenance****Unit Cover Sheet****2013 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
Owens Creek Overflow Structure

Structure Rating	<b>A</b>
Date of Inspection	07/23/2013
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure						Structure Length	Inspection Start/End	Inspector
Owens Creek Overflow Structure							07/23/2013 07/23/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	0.00	Structures	Photo Documentation		N	Inspector Comments: The structure appears to be maintained and able to perform as intended.	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	1 Y
2	0.00	0.00	Structures	Vegetation & Obstructions		A	Inspector Comments: Minor vegetation on downstream side.	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	2
3	0.00	0.00	Structures	Shoaling / Sedimentation		A	Inspector Comments: No sedimentation build-up or shoaling near the structure.	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	3
4	0.00	0.00	Structures	Erosion / Bank Caving		A	Inspector Comments: No erosion near the structure.	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	4
5	0.00	0.00	Structures	Revetments		A	Inspector Comments: Revetment on outlet side not viewable due to high water.	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	5
6	0.00	0.00	Structures	Encroachments		A	Inspector Comments: No encroachments near the structure.	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	6
7	0.00	0.00	Structures	Culverts: Inlets / Outlets		A	Inspector Comments: No debris visible to block culverts.	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	7 Y
8	0.00	0.00	Structures	Culverts: Breaks / Holes / Cracks		A	Inspector Comments: No visible damage to culverts.	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	8
9	0.00	0.00	Structures	Metal Pipes		N	Inspector Comments: Item does not exist on this structure.	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	9
10	0.00	0.00	Structures	Trash Racks		N	Inspector Comments: Item does not exist on this structure.	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	10
11	0.00	0.00	Structures	Flap Gates		N	Inspector Comments: Item does not exist on this structure.	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	11
12	0.00	0.00	Structures	Sluice/Slide Gates		A	Inspector Comments: Slide gates not viewable due to high water.	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	12
13	0.00	0.00	Structures	Electric Gate Operators		N	Inspector Comments: Item does not exist on this structure.	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	13
14	0.00	0.00	Structures	Manual Gate Operators		A	Inspector Comments: Manual gates appears to be in good working condition.	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	14 Y
15	0.00	0.00	Structures	Concrete Surfaces		A	Inspector Comments: Small cracking on headwall.	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	15 Y
16	0.00	0.00	Structures	Concrete Tilting / Settlement		A	Inspector Comments: No visible movement.	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	16

**\* Location**

LS : Land Side  
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CR : Crown

**\*\* Rating**

A : Acceptable  
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PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment  
C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure						Structure Length	Inspection Start/End	Inspector
Owens Creek Overflow Structure							07/23/2013 07/23/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
17	0.00	0.00	Structures	Concrete Foundations		A	Inspector Comments: No visible undermining along the structure.	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	17
18	0.00	0.00	Structures	Security Fencing		N	Inspector Comments: Item does not exist on this structure.	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	18
19	0.00	0.00	Structures	Closure Structures		N	Inspector Comments: Item does not exist on this structure.	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	19
20	0.00	0.00	Structures	Trash Rakes		N	Inspector Comments: Item does not exist on this structure.	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	20
21	0.00	0.00	Structures	Other Metallic Items		A	Inspector Comments: No visible corrosion.	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	21
22	0.00	0.00	Structures	Monolith Joints		N	Inspector Comments: Item does not exist on this structure.	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	22
23	0.00	0.00	Structures	Safety		A	Inspector Comments: No visible hazards.	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	23
24	0.00	0.00	Structures	Operation & Maintenance Manual		A	Inspector Comments: The manual is on file in the office.	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	24

**\* Location**

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CR : Crown

**\*\* Rating**

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C : Corrected



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
Owens Creek Overflow Structure		07/23/2013 07/23/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation

Looking west at upstream side of structure.

richard\_t\_20130729\_108.JPG



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation

Looking at outlet side of structure.

richard\_t\_20130729\_109.JPG



Levee Mile Report Line	7
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Culverts: Inlets / Outlets

Looking southwest at outlet of structure. (Summer 2012)

richard\_t\_20130715\_068.JPG



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

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CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
Owens Creek Overflow Structure		07/23/2013 07/23/2013	Richard Willoughby

Levee Mile Report Line	14
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Manual Gate Operators

Looking east at manual gate on upstream side of structure.

richard\_t\_20130729\_111.JPG



Levee Mile Report Line	15
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Concrete Surfaces

Looking at cracking on headwall.

richard\_t\_20130729\_110.JPG



**\* Location**

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WS : Water Side  
CR : Crown

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**Flood Control Project Maintenance****Unit Cover Sheet****2013 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
San Joaquin River And Chowchilla Canal Bypass Control Structure

Structure Rating	A
Date of Inspection	07/24/2013
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure						Structure Length	Inspection Start/End	Inspector
San Joaquin River And Chowchilla Canal Bypass Control Structure							07/24/2013 07/24/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	0.00	Structures	Photo Documentation		N	Inspector Comments: The structure appears to be maintained and able performed as designed. To eliminate the vibration the gates must remain all the way open or closed.	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	1 Y
2	0.00	0.00	Structures	Vegetation & Obstructions		A	Inspector Comments: No vegetation or obstruction visible to impede flow.	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	2
3	0.00	0.00	Structures	Shoaling / Sedimentation		A	Inspector Comments: No sedimentation build-up or shoaling visible.	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	3
4	0.00	0.00	Structures	Erosion / Bank Caving		A	Inspector Comments: No visible erosion near structure.	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	4
5	0.00	0.00	Structures	Revetments		A	Inspector Comments: All revetment appears to be properly maintained.	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	5 Y
6	0.00	0.00	Structures	Encroachments		A	Inspector Comments: No visible encroachments present.	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	6
7	0.00	0.00	Structures	Culverts: Inlets / Outlets		A	Inspector Comments: No visible debris blocking culverts.	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	7 Y
8	0.00	0.00	Structures	Culverts: Breaks / Holes / Cracks		A	Inspector Comments: No visible damage to culverts.	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	8
9	0.00	0.00	Structures	Metal Pipes		N	Inspector Comments: Item does not exist on this structure	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	9
10	0.00	0.00	Structures	Trash Racks		A	Inspector Comments: Trash racks appears to be properly maintained.	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	10
11	0.00	0.00	Structures	Flap Gates		N	Inspector Comments: This item does not exist on this structure.	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	11
12	0.00	0.00	Structures	Sluice/Slide Gates		A	Inspector Comments: Repair of gates is scheduled for mid-September 2012. See memo from CVFPB for timeline of construction in database. All repairs completed as of August 2013.	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	12 Y
13	0.00	0.00	Structures	Electric Gate Operators		A	Inspector Comments: Gates appears to be in proper working condition.	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	13 Y
14	0.00	0.00	Structures	Manual Gate Operators		A	Inspector Comments: Manual gates appears to be in proper working condition.	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	14

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
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PO : Partially Obstructing  
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N : Not Inspected, see Inspector Comment

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure						Structure Length	Inspection Start/End	Inspector
San Joaquin River And Chowchilla Canal Bypass Control Structure							07/24/2013 07/24/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
15	0.00	0.00	Structures	Concrete Surfaces		A	Inspector Comments: No visible damage to concrete surface.	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	15
16	0.00	0.00	Structures	Concrete Tilting / Settlement		A	Inspector Comments: No visible movement along this structure.	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	16
17	0.00	0.00	Structures	Concrete Foundations		A	Inspector Comments: No visible undermining present.	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	17
18	0.00	0.00	Structures	Security Fencing		A	Inspector Comments: Fencing appears to be properly maintained.	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	18 Y
19	0.00	0.00	Structures	Closure Structures		N	Inspector Comments: Item does not exist on this structure.	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	19
20	0.00	0.00	Structures	Trash Rakes		N	Inspector Comments: No mechanical trash rake exists on this structure. District maintains a manual trash rake to remove trash.	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	20
21	0.00	0.00	Structures	Other Metallic Items		A	Inspector Comments: No visible corrosion.	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	21
22	0.00	0.00	Structures	Monolith Joints		A	Inspector Comments: All joints appears to be in good condition.	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	22
23	0.00	0.00	Structures	Safety		A	Inspector Comments: No safety hazards present.	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	23
24	0.00	0.00	Structures	Operation & Maintenance Manual		A	Inspector Comments: The manual is on file in the office.	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	24

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

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U : Unacceptable  
PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment  
C : Corrected



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River And Chowchilla Canal Bypass Control Structure		07/24/2013 07/24/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation
Looking southeast at overview of downstream side of the SJRS.	
richard_t_20130731_174.JPG	



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation
Looking north at overview of downstream side of SJRCS.	
richard_t_20130731_175.JPG	



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation
Looking north at top of SJRCS.	
richard_t_20130731_176.JPG	

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
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N : Not Inspected, see Inspector Comment

C : Corrected



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River And Chowchilla Canal Bypass Control Structure		07/24/2013 07/24/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation

Looking east at overview of the top of the CCBCS.

richard\_t\_20130731\_180.JPG



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation

Looking at overview of upstream side of the CCBCS.

richard\_t\_20130731\_181.JPG



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation

Looking north at overview of the downstream side of CCBPCS.

richard\_t\_20130731\_182.JPG



**\* Location**

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WS : Water Side  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River And Chowchilla Canal Bypass Control Structure		07/24/2013 07/24/2013	Richard Willoughby

Levee Mile Report Line	5
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Revetments
Looking southeast at revetment on downstream side of Chowchilla Control Structure.	
richard_t_20130715_073.JPG	



Levee Mile Report Line	7
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Culverts: Inlets / Outlets
Looking north at overview of upstream side of SJRCS.	
richard_t_20130731_179.JPG	



Levee Mile Report Line	12
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Sluice/Slide Gates
Looking north at slide gates on the SJRCS.	
richard_t_20130731_177.JPG	

**\* Location**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River And Chowchilla Canal Bypass Control Structure		07/24/2013 07/24/2013	Richard Willoughby

Levee Mile Report Line	12
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Sluice/Slide Gates
Looking southwest at slide gates on SJRCS.	
richard_t_20130731_178.JPG	



Levee Mile Report Line	12
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Sluice/Slide Gates
Looking northwest at typical view of the slide gate on the CCBPCS.	
richard_t_20130731_183.JPG	



Levee Mile Report Line	13
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Electric Gate Operators
Looking east at typical view of gate operators on the CCBPCS. (2013)	
richard_t_20130731_185.JPG	

**\* Location**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River And Chowchilla Canal Bypass Control Structure		07/24/2013 07/24/2013	Richard Willoughby

Levee Mile Report Line	18
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Security Fencing
Looking north at utility shed and security fencing around structure.	
richard_t_20130731_184.JPG	

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**Flood Control Project Maintenance****Unit Cover Sheet****2013 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
San Joaquin River Structure And Sand Slough Structure

Structure Rating	<b>A</b>
Date of Inspection	07/24/2013
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure						Structure Length	Inspection Start/End	Inspector
San Joaquin River Structure And Sand Slough Structure							07/24/2013 07/24/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	0.00	Structures	Photo Documentation		N	Inspector Comments: San Joaquin structure has some minor structure damage. The Sand Slough structure appears to be maintained and able to function as designed.	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	1 Y
2	0.00	0.00	Structures	Vegetation & Obstructions		A	Inspector Comments: No vegetation or obstruction appears to impede flow.	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	2
3	0.00	0.00	Structures	Shoaling / Sedimentation		A	Inspector Comments: No visible sedimentation or shoaling present.	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	3
4	0.00	0.00	Structures	Erosion / Bank Caving		A	Inspector Comments: No visible erosion near the structure.	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	4
5	0.00	0.00	Structures	Revetments		A	Inspector Comments: Revetment appears to be properly maintained.	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	5
6	0.00	0.00	Structures	Encroachments		A	Inspector Comments: No encroachments near the structure.	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	6
7	0.00	0.00	Structures	Culverts: Inlets / Outlets		A	Inspector Comments: There is minor vegetation in inlet culvert.	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	7 Y
8	0.00	0.00	Structures	Culverts: Breaks / Holes / Cracks		A	Inspector Comments: No visible damage to culverts.	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	8
9	0.00	0.00	Structures	Metal Pipes		N	Inspector Comments: Item does not exist on this structure	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	9
10	0.00	0.00	Structures	Trash Racks		N	Inspector Comments: Item does not exist on this structure	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	10
11	0.00	0.00	Structures	Flap Gates		N	Inspector Comments: Item does not exist on this structure	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	11
12	0.00	0.00	Structures	Sluice/Slide Gates		A	Inspector Comments: Gates appears to be in good working conditions. Minor vegetation in front of gates.	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	12 Y
13	0.00	0.00	Structures	Electric Gate Operators		N	Inspector Comments: Item does not exist on this structure	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	13
14	0.00	0.00	Structures	Manual Gate Operators		A	Inspector Comments: All manual gates appears to be in proper working condition. District caps off manual operation stem to secure gates.	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	14 Y

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure						Structure Length	Inspection Start/End	Inspector
San Joaquin River Structure And Sand Slough Structure							07/24/2013 07/24/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
15	0.00	0.00	Structures	Concrete Surfaces		M	Inspector Comments: Chips on SJ structure surface from gun shots; structure is being used as target practice. Cracking on Sand Slough structure outlet side on left and right corner. Minor cracking on Sand Slough structure.	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	15 Y
16	0.00	0.00	Structures	Concrete Tilting / Settlement		A	Inspector Comments: No visible movement along this structure.	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	16
17	0.00	0.00	Structures	Concrete Foundations		A	Inspector Comments: No visible undermining present or near this structure.	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	17
18	0.00	0.00	Structures	Security Fencing		N	Inspector Comments: Item does not exist on this structure	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	18
19	0.00	0.00	Structures	Closure Structures		A	Inspector Comments: San Joaquin River Structure upstream side appears in good condition.	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	19
20	0.00	0.00	Structures	Trash Rakes		N	Inspector Comments: Item does not exist on this structure	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	20
21	0.00	0.00	Structures	Other Metallic Items		A	Inspector Comments: No visible corrosion	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	21
22	0.00	0.00	Structures	Monolith Joints		M	Inspector Comments: Medium size cracking on outlet side on right corner should be repaired.	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	22 Y
23	0.00	0.00	Structures	Safety		A	Inspector Comments: No visible safety hazards.	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	23
24	0.00	0.00	Structures	Operation & Maintenance Manual		A	Inspector Comments: The manual is on file in the office.	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	24

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River Structure And Sand Slough Structure		07/24/2013 07/24/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation
Looking east at downstream side of structure.	
Richard_t_20130730_133.JPG	



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation
Looking south at overview of structure.	
Richard_t_20130730_134.JPG	



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation
Looking south at upstream side of structure.	
Richard_t_20130730_135.JPG	

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River Structure And Sand Slough Structure		07/24/2013 07/24/2013	Richard Willoughby

Levee Mile Report Line	7
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Culverts: Inlets / Outlets
Looking west at inlet of Sand Slough structure.	
richard_t_20130715_083.JPG	



Levee Mile Report Line	7
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Culverts: Inlets / Outlets
Looking north at inlet of Sand Slough structure.	
richard_t_20130715_084.JPG	



Levee Mile Report Line	12
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Sluice/Slide Gates
Looking east at gates on downstream side of Sand Slough structure.,	
richard_t_20130715_085.JPG	

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River Structure And Sand Slough Structure		07/24/2013 07/24/2013	Richard Willoughby

Levee Mile Report Line	12
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Sluice/Slide Gates

Looking northeast at downstream side of structure.

Richard\_t\_20130730\_139.JPG



Levee Mile Report Line	14
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Manual Gate Operators

Looking southeast at manual gate operators on upstream side of structure.

Richard\_t\_20130730\_138.JPG



Levee Mile Report Line	15
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Concrete Surfaces

Looking south at chips on left wing wall on downstream side of structure.

Richard\_t\_20130730\_136.JPG



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2013**

**Lower San Joaquin Levee District**

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River Structure And Sand Slough Structure		07/24/2013 07/24/2013	Richard Willoughby

Levee Mile Report Line	22
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Monolith Joints

Looking northwest at cracking on left corner joint.

Richard\_t\_20130730\_137.JPG



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